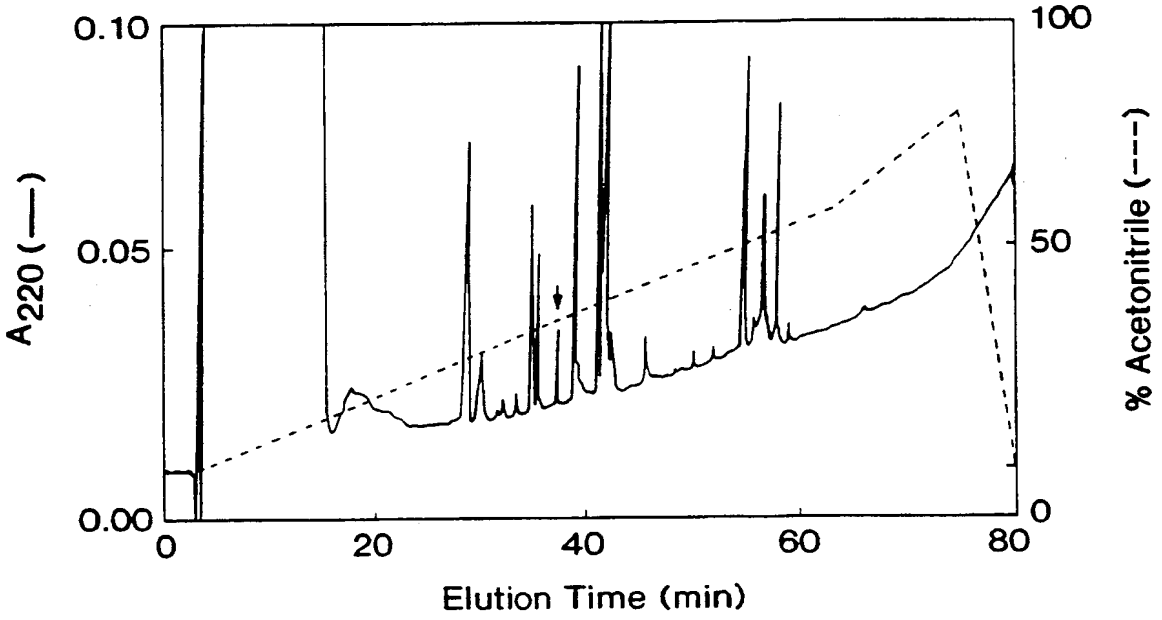

0.10
0.05
0.00
A220 (—)
100
50
0
% Acetonitrile (---)
0
20
40
60
80
Elution Time (min)

FIG. 1A

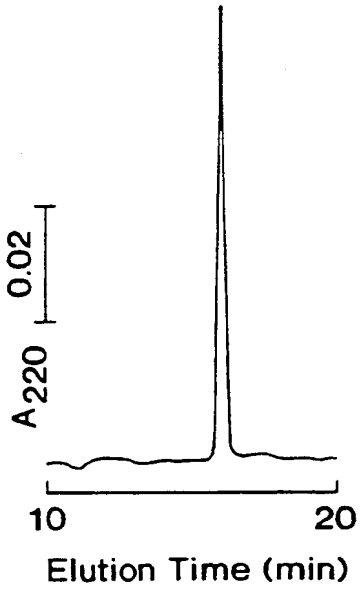

0.02
A220
10
20
Elution Time (min)

FIG. 1B

PEPTIDE	SEQUENCE	MASS (m/z)
T-2	G^1-F-C(R)	586.6 (586.7)
CT-1	C-R-C-L	704.5 (703.9)
T-3	C-L-C-R	704.6 (703.8)
CT-2	C-R-R-G-V-C	903.0 (903.1)
T-4	R-G-V-C-R	694.3 (694.8)
CT-3	R-C-I-C-T-R^{18}.G^1(F)	1164.5 (1165.7)
T-1	C-I C-T-R	805.4 (805.0)
MeOH/HCl	T-R^{18}.G^1-F-C-R-C-L-C-R-R-G-V-C-R-C-I-C	not analyzed

FIG. 2A

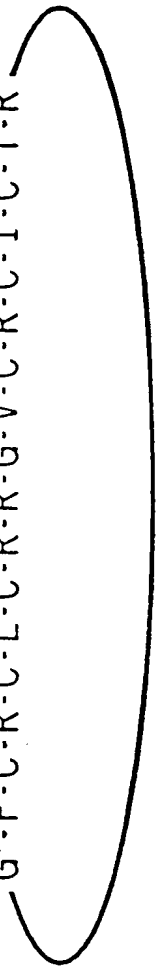


FIG. 2B

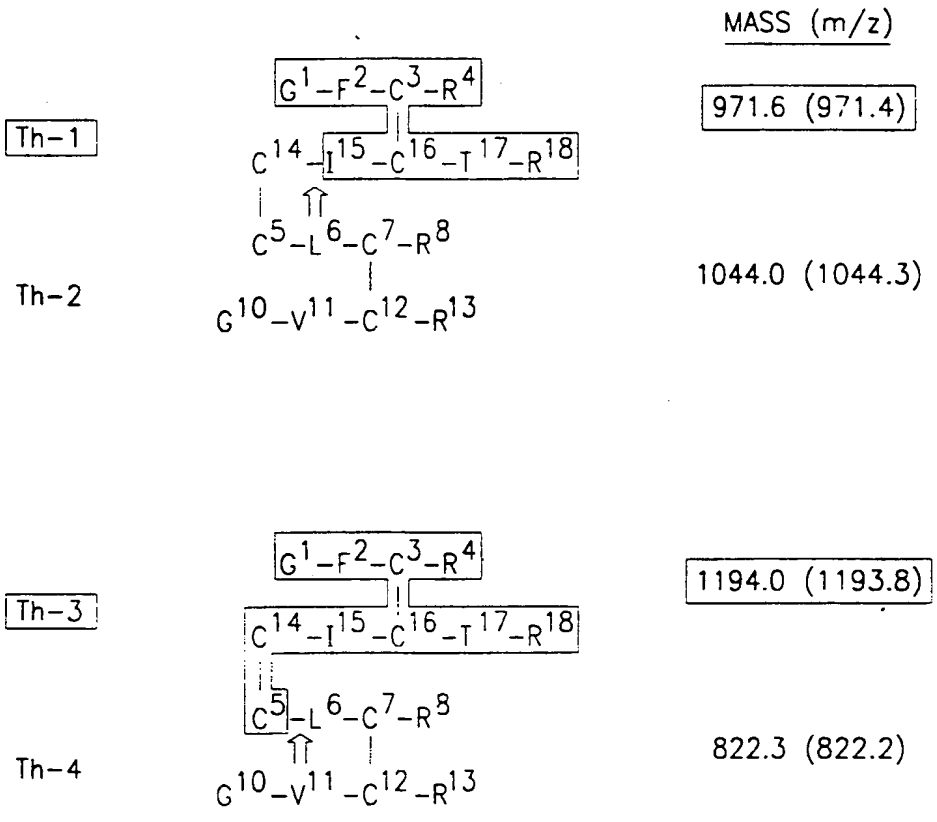
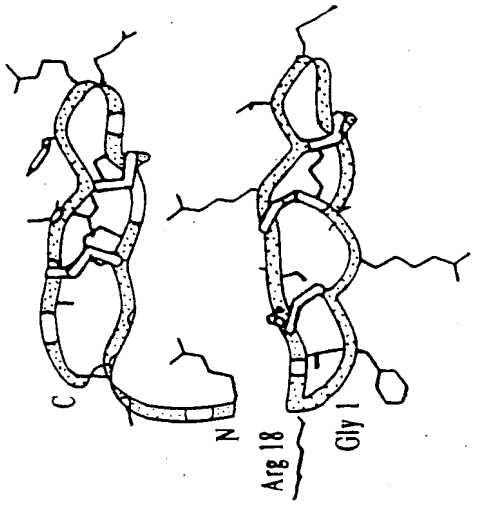

MASS (m/z)
Th-1
G1-F2-C3-R4
C14-I15-C16-T17-R18
C5-L6-C7-R8
971.6 (971.4)
Th-2
G10-V11-C12-R13
1044.0 (1044.3)
Th-3
G1-F2-C3-R4
C14-I15-C16-T17-R18
C5-L6-C7-R8
1194.0 (1193.8)
Th-4
G10-V11-C12-R13
822.3 (822.2)

FIG. 3



PG-1 RTD-1

FIG. 4B

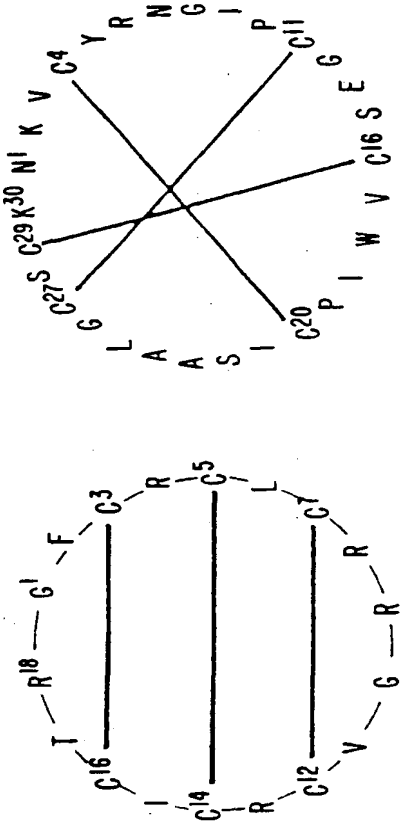


FIG. 4A

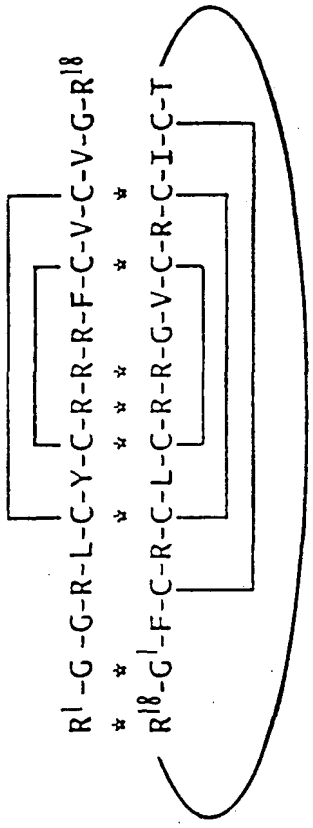


FIG. 4C

```
ATOM      1   N  ARG  1    4.445  1.973  1.040  0.00  0.00      N
ATOM      2  CA  ARG  1    5.522  1.436  0.144  0.00  0.00      C
ATOM      3   C  ARG  1    4.975  0.520 -1.001  0.00  0.00      C
ATOM      4   C  ARG  1    5.013  0.909 -2.171  0.00  0.00      O
ATOM      5  CB  ARG  1    6.757  0.901  0.940  0.00  0.00      C
ATOM      6  CG  ARG  1    8.115  0.817  0.196  0.00  0.00      C
ATOM      7  CD  ARG  1    8.247 -0.348 -0.805  0.00  0.00      C
ATOM      8  NE  ARG  1    9.635 -0.394 -1.339  0.00  0.00     N1+
ATOM      9  CZ  ARG  1   10.094 -1.285 -2.220  0.00  0.00      C
ATOM     10 NH1  ARG  1    9.363 -2.248 -2.726  0.00  0.00      N
ATOM     11 NH2  ARG  1   11.336 -1.194 -2.598  1.00  0.00      N
ATOM     12   H  ARG  1    4.004  2.884  0.861  0.00  0.00      H
ATOM     13  HA  ARG  1    5.896  2.332 -0.389  0.00  0.00      H
ATOM     14 1HB  ARG  1    6.913  1.571  1.809  0.00  0.00      H
ATOM     15 2HB  ARG  1    6.517 -0.076  1.403  0.00  0.00      H
ATOM     16 1HG  ARG  1    8.325  1.782 -0.307  0.00  0.00      H
ATOM     17 2HG  ARG  1    8.908  0.718  0.964  0.00  0.00      H
ATOM     18 1HD  ARG  1    7.985 -1.303 -0.303  0.00  0.00      H
ATOM     19 2HD  ARG  1    7.523 -0.218 -1.635  0.00  0.00      H
ATOM     20  HE  ARG  1   10.329  0.298 -1.044  1.00  0.00      H
ATOM     21 1HH1  ARG  1    8.398 -2.263 -2.391  0.00  0.00      H
ATOM     22 2HH1  ARG  1    9.794 -2.889 -3.396  0.00  0.00      H
ATOM     23 1HH2  ARG  1   11.891 -0.439 -2.191  0.00  0.00      H
ATOM     24 2HH2  ARG  1   11.669 -1.886 -3.272  0.00  0.00      H
ATOM     25   N  GLY  2    4.471 -0.678 -0.668  0.00  0.00      C
ATOM     26  CA  GLY  2    3.645 -1.487 -1.607  0.00  0.00      C
ATOM     27   C  GLY  2    2.571 -2.369 -0.935  0.00  0.00      O
ATOM     28   O  GLY  2    2.483 -3.558 -1.244  0.00  0.00      H
ATOM     29   H  GLY  2    4.420 -0.799  0.356  0.00  0.00      H
ATOM     30 1HA  GLY  2    3.133 -0.847 -2.352  0.00  0.00      H
ATOM     31 2HA  GLY  2    4.311 -2.140 -2.202  0.00  0.00      N
ATOM     32   N  PHE  3    1.744 -1.787 -0.048  1.00  0.00      C
ATOM     33  CA  PHE  3    0.707 -2.540  0.716  1.00  0.00      C
ATOM     34   C  PHE  3   -0.574 -1.652  0.805  1.00  0.00      O
ATOM     35   O  PHE  3   -0.719 -0.840  1.725  1.00  0.00      C
ATOM     36  CB  PHE  3    1.236 -2.949  2.125  1.00  0.00      C
ATOM     37  CG  PHE  3    2.397 -3.960  2.159  1.00  0.00      C
ATOM     38 CD1  PHE  3    3.705 -3.524  2.398  1.00  0.00      C
ATOM     39 CD2  PHE  3    2.159 -5.321  1.934  1.00  0.00      C
ATOM     40 CE1  PHE  3    4.760 -4.433  2.407  1.00  0.00      C
ATOM     41 CE2  PHE  3    3.215 -6.230  1.945  1.00  0.00      C
ATOM     42  CZ  PHE  3    4.514 -5.786  2.179  1.00  0.00      C
ATOM     43   H  PHE  3    1.994 -0.817  0.174  1.00  0.00      H
ATOM     44  HA  PHE  3    0.434 -3.475  0.183  1.00  0.00      H
ATOM     45 1HB  PHE  3    1.516 -2.038  2.686  1.00  0.00      H
ATOM     46 2HB  PHE  3    0.399 -3.371  2.714  1.00  0.00      H
ATOM     47 HD1  PHE  3    3.909 -2.478  2.569  1.00  0.00      H
ATOM     48 HD2  PHE  3    1.157 -5.676  1.741  1.00  0.00      H
ATOM     49 HE1  PHE  3    5.768 -4.090  2.587  1.00  0.00      H
ATOM     50 HE2  PHE  3    3.027 -7.279  1.768  1.00  0.00      H
```

FIG. 5A

ATOM	51	HZ	PHE	3	5.333	-6.491	2.183	1.00	0.00	H
ATOM	52	N	CYS	4	-1.485	-1.783	-0.178	1.00	0.00	N
ATOM	53	CA	CYS	4	-2.676	-0.902	-0.303	1.00	0.00	C
ATOM	54	C	CYS	4	-3.883	-1.384	0.565	1.00	0.00	C
ATOM	55	O	CYS	4	-4.495	-2.417	0.278	1.00	0.00	O
ATOM	56	CB	CYS	4	-3.015	-0.813	-1.807	1.00	0.00	V
ATOM	57	SG	CYS	4	-1.735	0.014	-2.797	1.00	0.00	D
ATOM	58	H	CYS	4	-1.244	-2.461	-0.908	1.00	0.00	H
ATOM	59	HA	CYS	4	-2.421	0.128	0.002	1.00	0.00	H
ATOM	60	HB	CYS	4	-3.217	-1.814	-2.236	1.00	0.00	H
ATOM	61	2HB	CYS	4	-3.953	-0.243	-1.946	1.00	0.00	H
ATOM	62	N	ARG	5	-4.225	-0.622	1.622	1.00	0.00	N
ATOM	63	CA	ARG	5	-5.375	-0.934	2.515	1.00	0.00	C
ATOM	64	C	ARG	5	-6.403	0.241	2.508	1.00	0.00	C
ATOM	65	O	ARG	5	-6.065	1.381	2.846	1.00	0.00	O
ATOM	66	CB	ARG	5	-4.827	-1.238	3.937	1.00	0.00	C
ATOM	67	CG	ARG	5	-5.877	-1.865	4.888	1.00	0.00	C
ATOM	68	CD	ARG	5	-5.313	-2.174	6.285	1.00	0.00	C
ATOM	69	NE	ARG	5	-6.356	-2.883	7.076	1.00	0.00	N1+
ATOM	70	CZ	ARG	5	-6.158	-3.497	8.243	1.00	0.00	C
ATOM	71	NH1	ARG	5	-5.016	-3.482	8.886	1.00	0.00	N
ATOM	72	NH2	ARG	5	-7.153	-4.148	8.774	1.00	0.00	N
ATOM	73	H	ARG	5	-3.631	0.210	1.776	1.00	0.00	H
ATOM	74	HA	ARG	5	-5.883	-1.856	2.164	1.00	0.00	H
ATOM	75	1HB	ARG	5	-3.968	-1.934	3.853	1.00	0.00	H
ATOM	76	2HB	ARG	5	-4.404	-0.313	4.380	1.00	0.00	H
ATOM	77	1HG	ARG	5	-6.752	-1.190	4.979	1.00	0.00	H
ATOM	78	2HG	ARG	5	-6.263	-2.796	4.425	1.00	0.00	H
ATOM	79	1HD	ARG	5	-4.398	-2.793	6.184	1.00	0.00	H
ATOM	80	2HD	ARG	5	-5.007	-1.233	6.787	1.00	0.00	H
ATOM	81	HE	ARG	5	-7.304	-2.991	6.704	1.00	0.00	H
ATOM	82	1HH1	ARG	5	-4.945	-3.988	9.771	1.00	0.00	H
ATOM	83	2HH1	ARG	5	-4.279	-2.952	8.417	1.00	0.00	H
ATOM	84	1HH2	ARG	5	-8.031	-4.162	8.252	1.00	0.00	H
ATOM	85	2HH2	ARG	5	-6.978	-4.625	9.661	1.00	0.00	H
ATOM	86	N	CYS	6	-7.669	-0.051	2.153	0.00	0.00	H
ATOM	87	CA	CYS	6	-8.750	0.970	2.109	0.00	0.00	C
ATOM	88	C	CYS	6	-9.798	0.729	3.238	0.00	0.00	C
ATOM	89	O	CYS	6	-10.685	-0.120	3.112	0.00	0.00	O
ATOM	90	CB	CYS	6	-9.307	1.004	0.667	0.00	0.00	C
ATOM	91	SG	CYS	6	-9.911	2.662	0.297	0.00	0.00	S
ATOM	92	H	CYS	6	-7.825	-1.007	1.819	0.00	0.00	H
ATOM	93	HA	CYS	6	-8.328	1.972	2.283	0.00	0.00	H
ATOM	94	1HB	CYS	6	-8.529	0.778	-0.088	0.00	0.00	H
ATOM	95	2HB	CYS	6	-10.109	0.258	0.513	0.00	0.00	H
ATOM	96	N	LEU	7	-9.654	1.449	4.368	1.00	0.00	N
ATOM	97	CA	LEU	7	-10.388	1.150	5.633	1.00	0.00	C
ATOM	98	C	LEU	7	-11.434	2.249	6.009	1.00	0.00	C
ATOM	99	O	LEU	7	-11.151	3.452	5.967	1.00	0.00	O
ATOM	100	CB	LEU	7	-9.374	0.760	6.757	1.00	0.00	C

FIG. 5B

ATOM	101	CG	LEU	7	-8.386	1.757	7.435	1.00	0.00	C
ATOM	102	CD1	LEU	7	-7.508	2.568	6.467	1.00	0.00	C
ATOM	103	CD2	LEU	7	-9.054	2.697	8.452	1.00	0.00	C
ATOM	104	H	LEU	7	-8.903	2.151	4.337	1.00	0.00	H
ATOM	105	HA	LEU	7	-10.966	0.215	5.476	1.00	0.00	H
ATOM	106	1HB	LEU	7	-9.954	0.273	7.565	1.00	0.00	H
ATOM	107	2HB	LEU	7	-8.762	-0.073	6.359	1.00	0.00	H
ATOM	108	HG	LEU	7	-7.689	1.128	8.025	1.00	0.00	H
ATOM	109	1HD1	LEU	7	-6.711	3.120	6.998	1.00	0.00	H
ATOM	110	2HD1	LEU	7	-7.007	1.923	5.722	1.00	0.00	H
ATOM	111	3HD1	LEU	7	-8.097	3.320	5.909	1.00	0.00	H
ATOM	112	1HD2	LEU	7	-8.302	3.262	9.032	1.00	0.00	H
ATOM	113	2HD2	LEU	7	-9.705	3.447	7.967	1.00	0.00	H
ATOM	114	3HD2	LEU	7	-9.676	2.141	9.177	1.00	0.00	H
ATOM	115	N	CYS	8	-12.667	1.827	6.355	0.00	0.00	N
ATOM	116	CA	CYS	8	-13.782	2.747	6.706	0.00	0.00	C
ATOM	117	C	CYS	8	-13.756	3.194	8.202	0.00	0.00	C
ATOM	118	O	CYS	8	-13.835	2.372	9.120	0.00	0.00	O
ATOM	119	CB	CYS	8	-15.112	2.052	6.334	0.00	0.00	C
ATOM	120	SG	CYS	8	-15.536	2.183	4.573	0.00	0.00	S
ATOM	121	H	CYS	8	-12.799	0.811	6.359	0.00	0.00	H
ATOM	122	HA	CYS	8	-13.732	3.653	6.080	0.00	0.00	H
ATOM	123	1HB	CYS	8	-15.135	0.991	6.649	0.00	0.00	H
ATOM	124	2HB	CYS	8	-15.953	2.528	6.873	0.00	0.00	H
ATOM	125	N	ARG	9	-13.685	4.516	8.431	0.00	0.00	N
ATOM	126	CA	ARG	9	-13.874	5.123	9.780	0.00	0.00	C
ATOM	127	C	ARG	9	-15.143	6.030	9.740	0.00	0.00	C
ATOM	128	O	ARG	9	-15.171	7.045	9.036	0.00	0.00	O
ATOM	129	CB	ARG	9	-12.598	5.905	10.199	0.00	0.00	C
ATOM	130	CG	ARG	9	-11.403	5.004	10.601	0.00	0.00	C
ATOM	131	CD	ARG	9	-10.168	5.811	11.037	0.00	0.00	C
ATOM	132	NE	ARG	9	-9.107	4.873	11.498	0.00	0.00	N1+
ATOM	133	CZ	ARG	9	-7.962	5.228	12.082	0.00	0.00	C
ATOM	134	NH1	ARG	9	-7.612	6.472	12.300	0.00	0.00	N
ATOM	135	NH2	ARG	9	-7.145	4.287	12.460	0.00	0.00	N
ATOM	136	H	ARG	9	-13.622	5.093	7.583	0.00	0.00	H
ATOM	137	HA	ARG	9	-14.035	4.337	10.547	0.00	0.00	H
ATOM	138	1HB	ARG	9	-12.303	6.603	9.389	0.00	0.00	H
ATOM	139	2HB	ARG	9	-12.846	6.559	11.059	0.00	0.00	H
ATOM	140	1HG	ARG	9	-11.723	4.325	11.418	0.00	0.00	H
ATOM	141	2HG	ARG	9	-11.146	4.340	9.752	0.00	0.00	H
ATOM	142	1HD	ARG	9	-9.805	6.431	10.192	0.00	0.00	H
ATOM	143	2HD	ARG	9	-10.454	6.513	11.848	0.00	0.00	H
ATOM	144	HE	ARG	9	-9.235	3.861	11.406	0.00	0.00	H
ATOM	145	1HH1	ARG	9	-8.298	7.161	11.984	0.00	0.00	H
ATOM	146	2HH1	ARG	9	-6.722	6.657	12.767	0.00	0.00	H
ATOM	147	1HH2	ARG	9	-7.438	3.323	12.293	0.00	0.00	H
ATOM	148	2HH2	ARG	9	-6.278	4.578	12.915	0.00	0.00	H
ATOM	149	N	ARG	10	-16.215	5.637	10.462	0.00	0.00	N
ATOM	150	CA	ARG	10	-17.558	6.306	10.411	0.00	0.00	C

FIG. 5C

ATOM	151	C	ARG	10	-18.386	6.033	9.106	0.00	0.00	C
ATOM	152	O	ARG	10	-19.548	5.622	9.208	0.00	0.00	O
ATOM	153	CB	ARG	10	-17.530	7.803	10.875	0.00	0.00	C
ATOM	154	CG	ARG	10	-18.722	8.328	11.730	0.00	0.00	C
ATOM	155	CD	ARG	10	-19.968	8.899	11.012	0.00	0.00	C
ATOM	156	NE	ARG	10	-20.779	7.815	10.397	0.00	0.00	N1+
ATOM	157	CZ	ARG	10	-22.072	7.865	10.088	0.00	0.00	C
ATOM	158	NH1	ARG	10	-22.840	8.904	10.304	0.00	0.00	N
ATOM	159	NH2	ARG	10	-22.596	6.811	9.533	0.00	0.00	N
ATOM	160	H	ARG	10	-16.078	4.751	10.960	0.00	0.00	H
ATOM	161	HA	ARG	10	-18.128	5.773	11.197	0.00	0.00	H
ATOM	162	1HB	ARG	10	-16.626	7.944	11.500	0.00	0.00	H
ATOM	163	2HB	ARG	10	-17.343	8.470	10.010	0.00	0.00	H
ATOM	164	1HG	ARG	10	-19.024	7.571	12.481	0.00	0.00	H
ATOM	165	2HG	ARG	10	-18.324	9.154	12.353	0.00	0.00	H
ATOM	166	1HD	ARG	10	-20.560	9.461	11.764	0.00	0.00	H
ATOM	167	2HD	ARG	10	-19.665	9.645	10.248	0.00	0.00	H
ATOM	168	HE	ARG	10	-20.325	6.941	10.080	1.00	0.00	H
ATOM	169	1HH1	ARG	10	-22.362	9.705	10.720	0.00	0.00	H
ATOM	170	2HH1	ARG	10	-23.822	8.848	10.030	0.00	0.00	H
ATOM	171	1HH2	ARG	10	-21.958	6.023	9.378	0.00	0.00	H
ATOM	172	2HH2	ARG	10	-23.590	6.840	9.301	0.00	0.00	H
ATOM	173	N	GLY	11	-17.826	6.288	7.910	1.00	0.00	N
ATOM	174	CA	GLY	11	-18.511	6.016	6.617	1.00	0.00	C
ATOM	175	C	GLY	11	-17.565	5.667	5.451	1.00	0.00	C
ATOM	176	O	GLY	11	-17.541	4.520	5.003	1.00	0.00	O
ATOM	177	H	GLY	11	-16.840	6.585	7.986	1.00	0.00	H
ATOM	178	1HA	GLY	11	-19.226	5.175	6.720	1.00	0.00	H
ATOM	179	2HA	GLY	11	-19.136	6.884	6.335	1.00	0.00	H
ATOM	180	N	VAL	12	-16.817	6.655	4.932	1.00	0.00	N
ATOM	181	CA	VAL	12	-15.952	6.477	3.722	1.00	0.00	C
ATOM	182	C	VAL	12	-14.651	5.637	3.988	1.00	0.00	C
ATOM	183	O	VAL	12	-13.950	5.844	4.985	1.00	0.00	O
ATOM	184	CB	VAL	12	-15.688	7.880	3.064	1.00	0.00	C
ATOM	185	CG1	VAL	12	-14.756	8.829	3.857	1.00	0.00	C
ATOM	186	CG2	VAL	12	-15.155	7.773	1.617	1.00	0.00	C
ATOM	187	H	VAL	12	-16.891	7.553	5.419	1.00	0.00	H
ATOM	188	HA	VAL	12	-16.566	5.916	2.987	1.00	0.00	H
ATOM	189	HB	VAL	12	-16.669	8.392	2.979	1.00	0.00	H
ATOM	190	1HG1	VAL	12	-13.729	8.426	3.491	1.00	0.00	H
ATOM	191	2HG1	VAL	12	-14.677	9.824	3.382	1.00	0.00	H
ATOM	192	3HG1	VAL	12	-15.118	8.997	4.887	1.00	0.00	H
ATOM	193	1HG2	VAL	12	-14.141	7.330	1.573	1.00	0.00	H
ATOM	194	2HG2	VAL	12	-15.809	7.151	0.978	1.00	0.00	H
ATOM	195	3HG3	VAL	12	-15.093	8.764	1.127	1.00	0.00	N
ATOM	196	N	CYS	13	-14.317	4.713	3.063	0.00	0.00	N
ATOM	197	CA	CYS	13	-13.052	3.937	3.118	0.00	0.00	C
ATOM	198	C	CYS	13	-11.828	4.755	2.598	0.00	0.00	C
ATOM	199	O	CYS	13	-11.730	5.076	1.409	0.00	0.00	O
ATOM	200	CB	CYS	13	-13.246	2.600	2.374	0.00	0.00	C

FIG. 5D

ATOM	201	SG	CYS	13	-14.168	1.373	3.345	0.00	0.00	S
ATOM	202	H	CYS	13	-14.951	4.647	2.261	0.00	0.00	H
ATOM	203	HA	CYS	13	-12.854	3.655	4.159	0.00	0.00	H
ATOM	204	1HB	CYS	13	-13.735	2.743	1.392	0.00	0.00	H
ATOM	205	2HB	CYS	13	-12.268	2.139	2.143	0.00	0.00	H
ATOM	206	N	ARG	14	-10.889	5.085	3.504	1.00	0.00	N
ATOM	207	CA	ARG	14	-9.666	5.853	3.152	1.00	0.00	C
ATOM	208	C	ARG	14	-8.532	4.905	2.651	1.00	0.00	C
ATOM	209	O	ARG	14	-7.977	4.113	3.420	1.00	0.00	O
ATOM	210	CB	ARG	14	-9.264	6.723	4.379	1.00	0.00	C
ATOM	211	CG	ARG	14	-7.945	7.536	4.266	1.00	0.00	C
ATOM	212	CD	ARG	14	-7.860	8.519	3.077	1.00	0.00	C
ATOM	213	NE	ARG	14	-6.479	9.065	2.938	1.00	0.00	N1+
ATOM	214	CZ	ARG	14	-6.046	10.234	3.413	1.00	0.00	C
ATOM	215	NH1	ARG	14	-6.786	11.050	4.122	1.00	0.00	N
ATOM	216	NH2	ARG	14	-4.818	10.584	3.160	1.00	0.00	N
ATOM	217	H	ARG	14	-11.032	4.677	4.441	1.00	0.00	H
ATOM	218	HA	ARG	14	-9.924	6.571	2.346	1.00	0.00	H
ATOM	219	1HB	ARG	14	-10.097	7.412	4.620	1.00	0.00	H
ATOM	220	2HB	ARG	14	-9.181	6.068	5.270	1.00	0.00	H
ATOM	221	1HG	ARG	14	-7.777	8.084	5.213	1.00	0.00	H
ATOM	222	2HG	ARG	14	-7.104	6.818	4.213	1.00	0.00	H
ATOM	223	1HD	ARG	14	-8.098	7.987	2.134	1.00	0.00	H
ATOM	224	2HD	ARG	14	-8.640	9.304	3.144	1.00	0.00	H
ATOM	225	HE	ARG	14	-5.774	8.543	2.406	1.00	0.00	H
ATOM	226	1HH1	ARG	14	-6.381	11.933	4.437	1.00	0.00	H
ATOM	227	2HH1	ARG	14	-7.735	10.711	4.288	1.00	0.00	H
ATOM	228	1HH2	ARG	14	-4.259	9.941	2.597	1.00	0.00	H
ATOM	229	2HH2	ARG	14	-4.506	11.486	3.525	1.00	0.00	H
ATOM	230	N	CYS	15	-8.170	5.034	1.363	0.00	0.00	N
ATOM	231	CA	CYS	15	-7.079	4.245	0.743	0.00	0.00	C
ATOM	232	C	CYS	15	-5.655	4.759	1.143	0.00	0.00	C
ATOM	233	O	CYS	15	-5.259	5.883	0.814	0.00	0.00	O
ATOM	234	CB	CYS	15	-7.334	4.257	-0.778	0.00	0.00	C
ATOM	235	SG	CYS	15	-8.884	3.429	-1.256	0.00	0.00	S
ATOM	236	H	CYS	15	-8.792	5.616	0.794	0.00	0.00	H
ATOM	237	HA	CYS	15	-7.164	3.186	1.042	0.00	0.00	H
ATOM	238	1HB	CYS	15	-7.333	5.288	-1.182	0.00	0.00	H
ATOM	239	2HB	CYS	15	-6.511	3.736	-1.303	0.00	0.00	H
ATOM	240	N	ILE	16	-4.902	3.917	1.872	1.00	0.00	N
ATOM	241	CA	ILE	16	-3.499	4.208	2.301	1.00	0.00	C
ATOM	242	C	ILE	16	-2.563	3.058	1.802	1.00	0.00	C
ATOM	243	O	ILE	16	-2.787	1.881	2.109	1.00	0.00	O
ATOM	244	CB	ILE	16	-3.362	4.466	3.848	1.00	0.00	C
ATOM	245	CG1	ILE	16	-3.997	3.381	4.774	1.00	0.00	C
ATOM	246	CG2	ILE	16	-3.880	5.877	4.225	1.00	0.00	C
ATOM	247	CD1	ILE	16	-3.464	3.357	6.218	1.00	0.00	C
ATOM	248	H	ILE	16	-5.380	3.056	2.182	1.00	0.00	H
ATOM	249	HA	ILE	16	-3.153	5.136	1.802	1.00	0.00	H
ATOM	250	HB	ILE	16	-2.274	4.477	4.065	1.00	0.00	H

FIG. 5E

```
ATOM    251  1HG1 ILE   16    -5.099   3.490   4.779  1.00  0.00      H
ATOM    252  2HG1 ILE   16    -3.827   2.376   4.343  1.00  0.00      H
ATOM    253  1HG2 ILE   16    -3.687   6.125   5.285  1.00  0.00      H
ATOM    254  2HG2 ILE   16    -3.394   6.668   3.624  1.00  0.00      H
ATOM    255  3HG2 ILE   16    -4.969   5.964   4.060  1.00  0.00      H
ATOM    256  1HD1 ILE   16    -3.945   2.557   6.809  1.00  0.00      H
ATOM    257  2HD1 ILE   16    -2.373   3.171   6.247  1.00  0.00      H
ATOM    258  3HD1 ILE   16    -3.652   4.308   6.749  1.00  0.00      H
ATOM    259    N  CYS   17    -1.511   3.396   1.030  1.00  0.00      N
ATOM    260   CA  CYS   17    -0.568   2.392   0.470  1.00  0.00      C
ATOM    261    C  CYS   17     0.877   2.602   1.011  1.00  0.00      C
ATOM    262    O  CYS   17     1.608   3.490   0.562  1.00  0.00      O
ATOM    263   CB  CYS   17    -0.695   2.398  -1.069  1.00  0.00      C
ATOM    264   SG  CYS   17    -0.233   0.772  -1.695  1.00  0.00      S
ATOM    265    H  CYS   17    -1.430   4.391   0.798  1.00  0.00      H
ATOM    266   HA  CYS   17    -0.878   1.380   0.777  1.00  0.00      H
ATOM    267  1HB  CYS   17    -1.734   2.590  -1.399  1.00  0.00      H
ATOM    268  2HB  CYS   17    -0.072   3.185  -1.536  1.00  0.00      H
ATOM    269    N THRC   18     1.286   1.785   2.001  1.00  0.00      N
ATOM    270   CA THRC   18     2.596   1.951   2.701  1.00  0.00      C
ATOM    271    C THRC   18     3.762   1.236   1.943  1.00  0.00      C
ATOM    272  OXT THRC   18     4.027   0.047   2.147  1.00  0.00      O
ATOM    273   CB THRC   18     2.448   1.596   4.214  1.00  0.00      C
ATOM    274  OG1 THRC   18     3.682   1.831   4.877  1.00  0.00      O
ATOM    275  CG2 THRC   18     2.017   0.167   4.594  1.00  0.00      C
ATOM    276   HN THRC   18     0.597   1.079   2.289  1.00  0.00      H
ATOM    277   HA THRC   18     2.845   3.033   2.723  1.00  0.00      H
ATOM    278   HB THRC   18     1.702   2.293   4.648  1.00  0.00      H
ATOM    279  HG1 THRC   18     4.200   1.031   4.751  1.00  0.00      H
ATOM    280 1HG2 THRC   18     1.934   0.057   5.692  1.00  0.00      H
ATOM    281 2HG2 THRC   18     1.027  -0.090   4.175  1.00  0.00      H
ATOM    282 3HG2 THRC   18     2.733  -0.599   4.244  1.00  0.00      H
TER
```

FIG. 5F

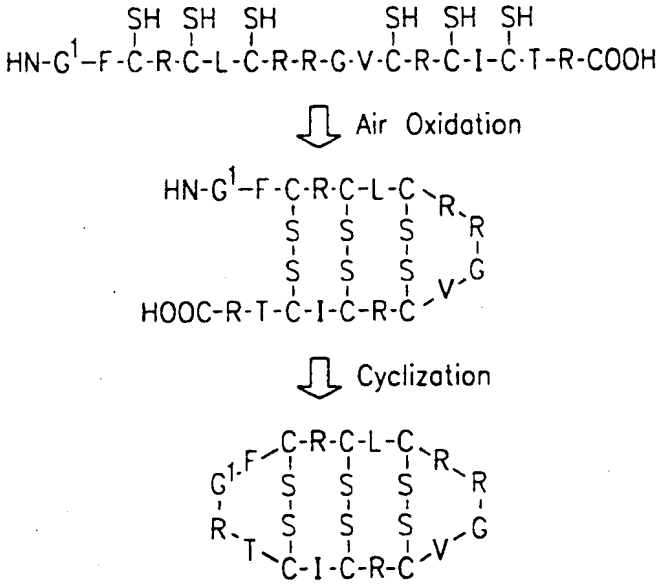

SH SH SH SH SH SH
HN-G1-F-C-R-C-L-C-R-R-G-V-C-R-C-I-C-T-R-COOH
Air Oxidation
HN-G1-F-C-R-C-L-C
HOOC-R-T-C-I-C-R-C
Cyclization

FIG. 6A

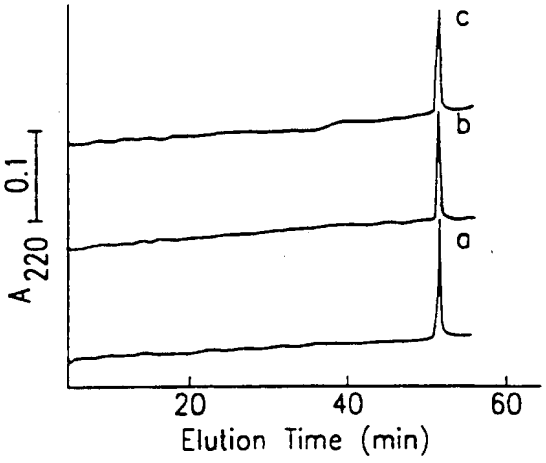

c
b
a
0.1
A220
20
40
60
Elution Time (min)

FIG. 6B

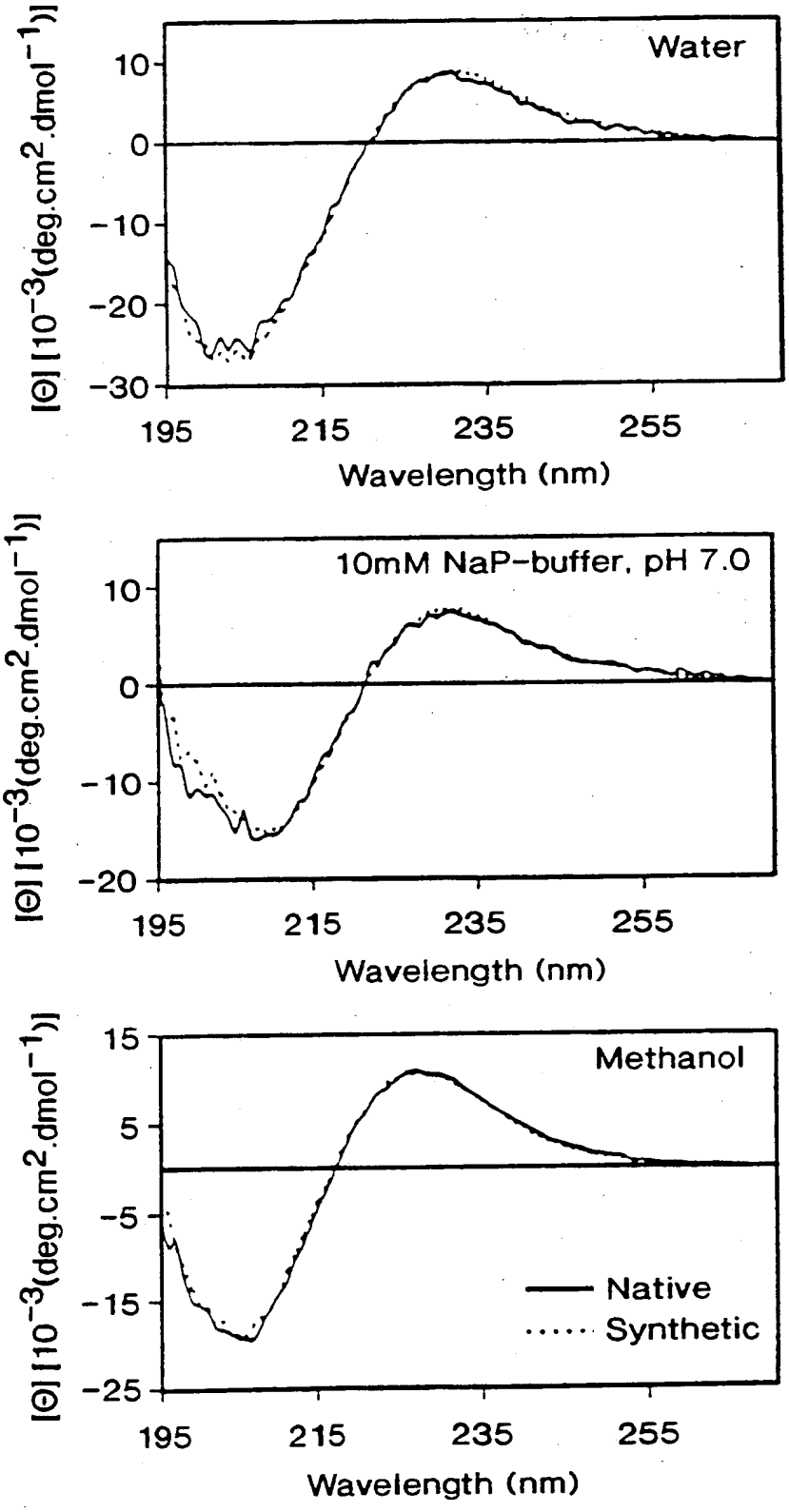

Water
10mM NaP-buffer, pH 7.0
Methanol
Native
Synthetic
[Θ] [10^{-3}(deg.cm^2.dmol^{-1})]
Wavelength (nm)
195
215
235
255
10
0
-10
-20
-30
15
5
-5
-15
-25

FIG. 6C

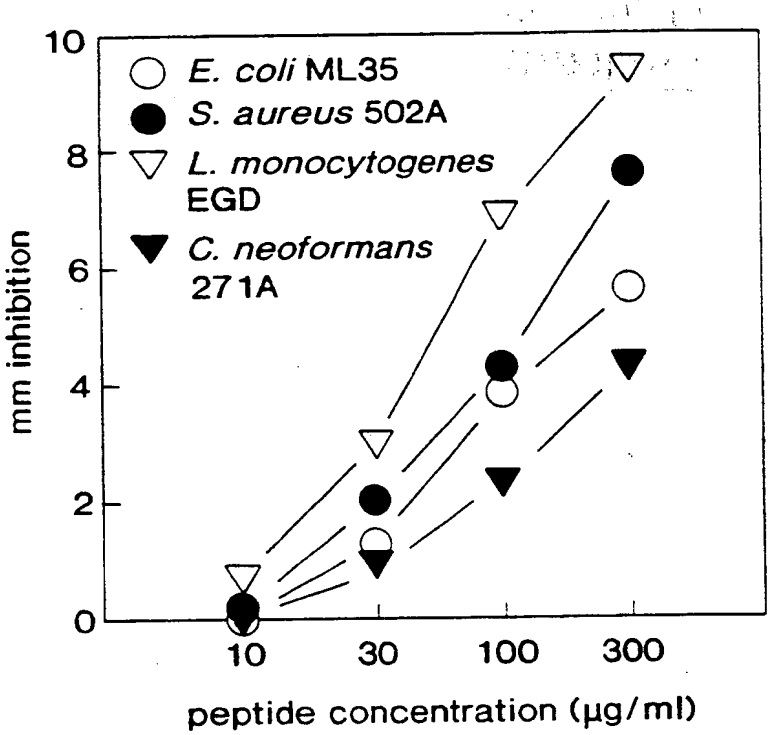


FIG. 7

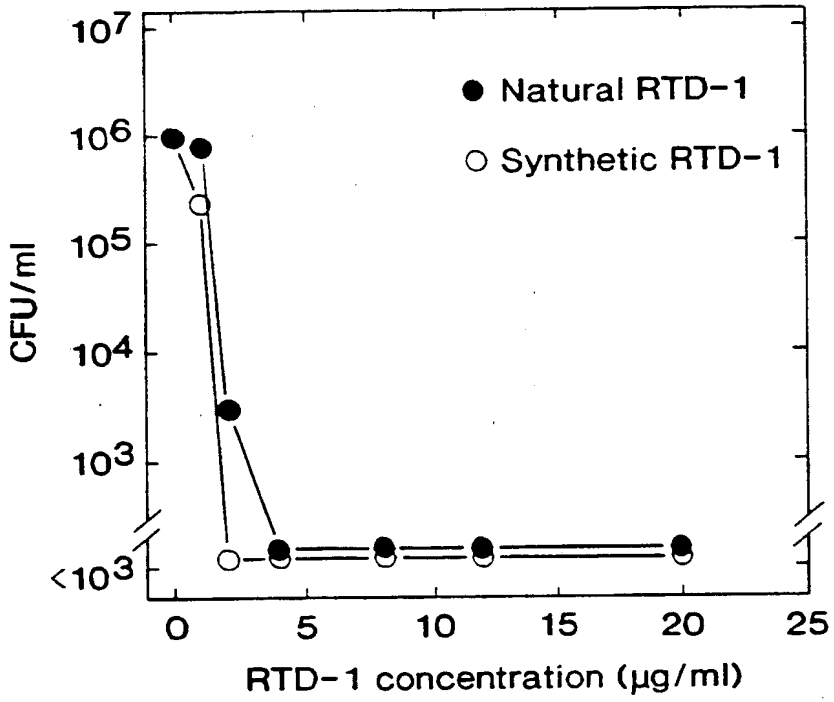


FIG. 8

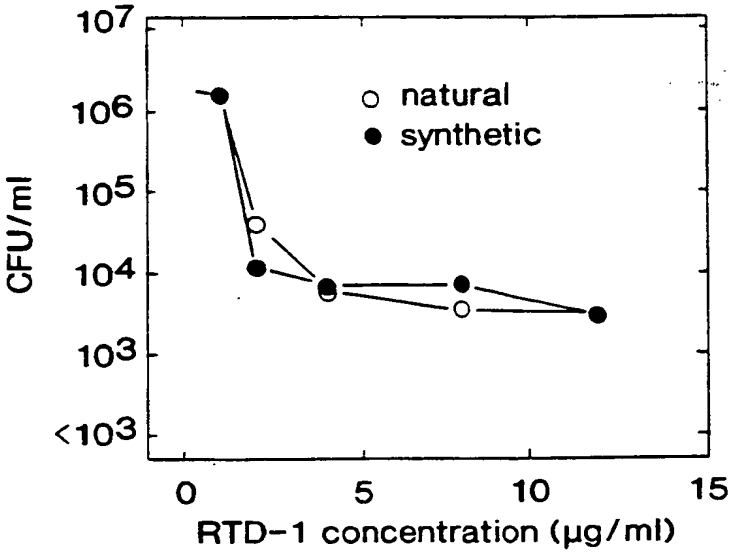


FIG. 9A

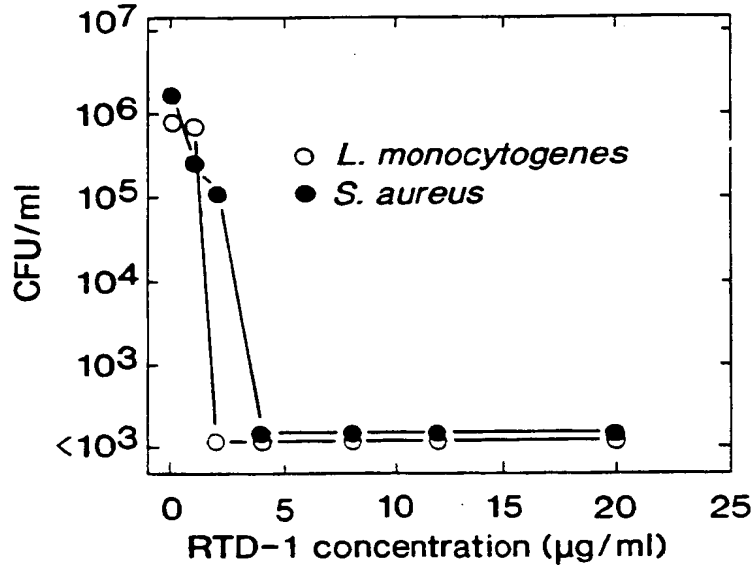


FIG. 9B

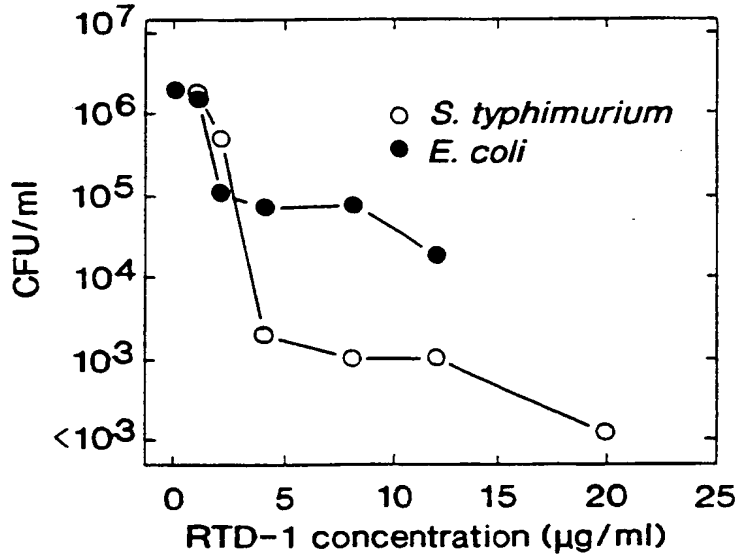


FIG. 9C

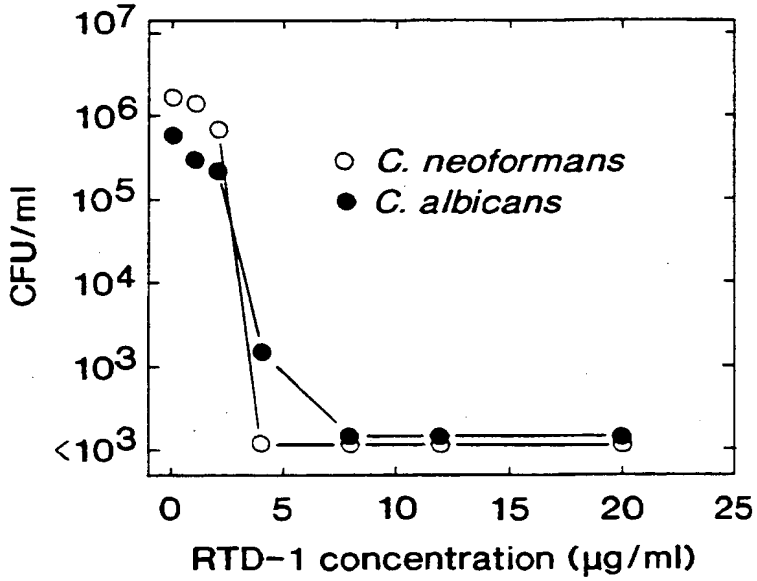

10^7
10^6
10^5
10^4
10^3
$<10^3$
CFU/ml
C. neoformans
C. albicans
0
5
10
15
20
25
RTD-1 concentration (μg/ml)

FIG. 9D

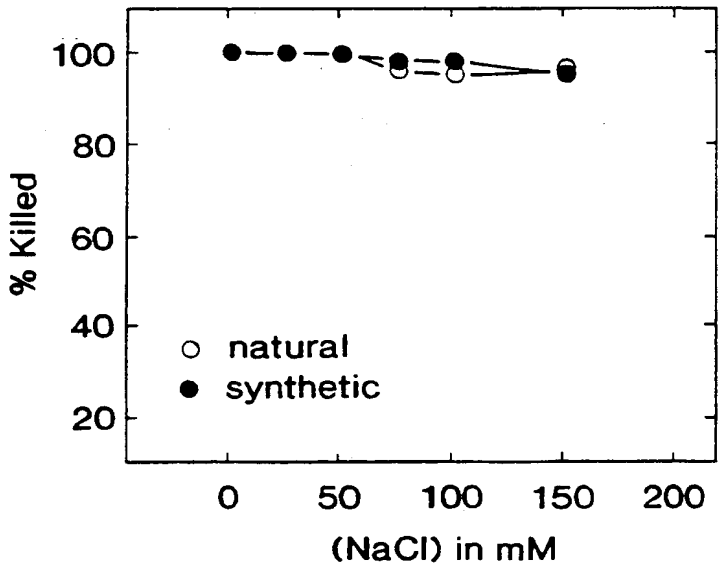

100
80
60
40
20
% Killed
natural
synthetic
0
50
100
150
200
(NaCl) in mM

FIG. 9E

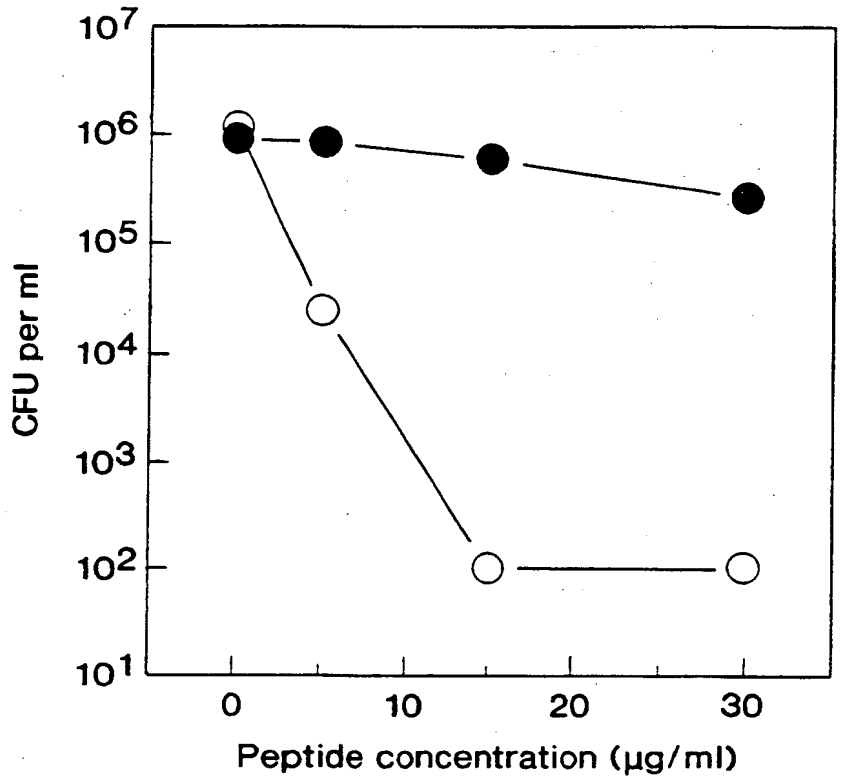

10^7
10^6
10^5
10^4
10^3
10^2
10^1
CFU per ml
0
10
20
30
Peptide concentration (µg/ml)

FIG. 10

RTD1a

```
GACGGCTGCTGTTGCTACAGGAGACCCAGGACAGAGGACTGCTGTCTGCACTCTCTCTTC          60

ACTCTGCCTAACTTGAGGATCTGTCACTCCAGCCATGAGGACCTTCGCCCTCCTCACCGC          120
                                  M  R  T  F  A  L  L  T  A
CATGCTTCTCCTGGTGGCCCTGCACGCTCAGGCAGAGGCACGTCAGGCAAGAGCTGATGA          180
 M  L  L  L  V  A  L  H  A  Q  A  E  A  R  Q  A  R  A  D  E
AGCTGCCGCCCAGCAGCAGCCTGGAACAGATGATCAGGGAATGGCTCATTCCTTTACATG          240
 A  A  A  Q  Q  Q  P  G  T  D  D  Q  G  M  A  H  S  F  T  W
GCCTGAAAACGCCGCTCTTCCACTTTCAGAGTCAGCGAAAGGCTTGAGGTGCATTTGCAC          300
 P  E  N  A  A  L  P  L  S  E  S  A  K  G  L  R13 C14 T15 C16 T17
ACGAGGATTCTGCCGTTTGTTATAATGTCACCTTGGGTCCTGCGCTTTTCGTGGTTGACT          360
 R18 G1  F2  C3  R  L  L  stop
CCACCGGATCTGCTGCCGCTGAGCTTCCAGAATCAAGAAAAATATGCTCAGAAGTTACTT          420

TGAGAGTTAAAAGAAATTCTTGCTACTGCTGTACCTTCTCCTCAGTTTCCTTTTCTCATC          480

CCAAATAAATACCTTATCGC                                                   500
```

RTD1b

```
GACCGCTGCTCTTGCTACAGGAGACCCGGGACAGAGGACTGCTGTCTGCCCTCTCTCTTC          60

ACTCTGCCTAACTTGAGGATCTGCCAGCCATGAGGACCTTCGCCCTCCTCACCGCCATGC          120
                                  M  R  T  F  A  L  L  T  A  M  L
TTCTCCTGGTGGCCCTGCACGCTCAGGCAGAGGCACGTCAGGCAAGAGCTGATGAAGCTG          180
  L  L  V  A  L  H  A  Q  A  E  A  R  Q  A  R  A  D  E  A  A
CCGCCCAGCAGCAGCCTGGAGCAGATGATCAGGGAATGGCTCATTCCTTTACACGGCCTG          240
  A  Q  Q  Q  P  G  A  D  D  Q  G  M  A  H  S  F  T  R  P  E
AAAACGCCGCTCTTCCGCTTTCAGAGTCAGCGAGAGGCTTGAGGTGCCTTTGCAGACGAG          300
  N  A  A  L  P  L  S  E  S  A  R  G  L  R4  C5  L6  C7  R8  R9  G10
GAGTTTGCCAACTGTTATAAAGGCGTTTGGGGTCCTGCGCTTTTCGTGGTTGACTCTGCC          360
  V11 C12 Q  L  L  stop
GGATCTGCTGCCGCTGAGCTTCCAGAATCAAGAAAAATACGCTCAGAAGTTACTTTGAGA          420

GTTGAAAGAAATTCCTGTTACTCCTGTACCTTGTCCTCAATTTCCTTTTCTCATCCCAAA          480

TAAATACCTTCTCGC                                                        495
```

FIG. 11

10/009317

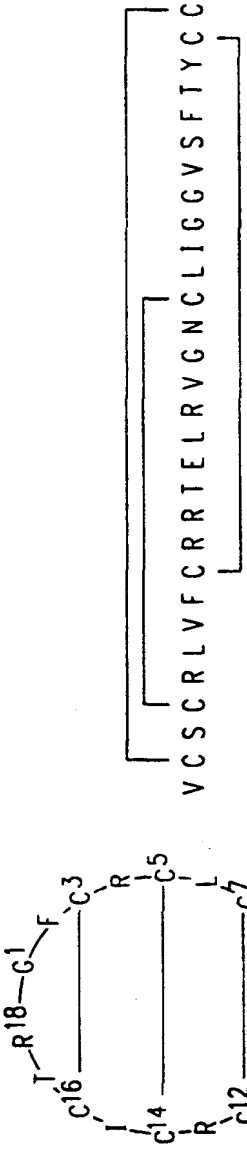


FIG. 12A

FIG. 12B

RTD1.1

```
GACGGCTGCTGTTGCTACAGGAGACCCAGGACAGAGGACTGCTGTCTGCACTCTCTCTTC      60
ACTCTGCCTAACTTGAGGATCTgtaagtaacacaaaacttaaactttcctgtcgaggttt     120
gaacattgaagctgtgcccctaatctgacctgtgactcctgggccaccccagagagacct     180
agtgggtgaatcccctgctgtgcatttctgtctgaacctctgggggctgctgggagcatt     240
ggctaccagctcaattaatagagaaactcaaggaatttccttctaattacatgtgtccta     300
cttgacacatccaacagagacaacaatagctccttaaaacacccttttgtttggagagaa     360
gccaatccagatcctcggcctgtttttcaatcaggttatttgttatttactattgagttg     420
tttgactgccttatgtatttagatatttacccccttctaccacttaggatttgcaactatc     480
gtctttcattttctgggttgctttttcactcagttgattatttgtttgttggtttttga     540
cgtgcagatgctttagaggtcagtgcagccccacttgcctcttttcccatttattgcctg     600
tgtctttggtgtcatagcaaagatatcattaccaacatcaatgtcaaagcgtcatcttca     660
tatattcctctcgtcgttttatggtttcaggtctatgtttgggtcttcaatccatttgag     720
ttgatttgtgtatatagatatgataaggccacatgtatcaaacatcaaatcctaaggtgc     780
agacagagatatataccattttaatcttattcacatctctatagagctggaaacaaattt     840
ttggctgtagatgaacttttacctcgatatgtcagtgttcatttcacctatcatatgat      900
agggtcattgttctcttcacactggcccctacaggaggctactcaccccatgccttcggg     960
agtgtggtcaagcccttgatgcctccaataaatgactctttacttgataggaaatcatac     1020
ctgctgccagagtgtagacctacagagagtagtagggccatctgcaggaagagacatttg     1080
tcgcctgacctcattgaataaaatcactgctgttatcctttgctagaagagttaaaagta     1140
aatatttcgtaaagtgagaaacaggaatcctcatcatcatcctcatcaaaccagcacaga     1200
cactaaacatagagattcaaactagagtgaaagctgggagaccaaaagaagaaaacatgg     1260
acattgagaccaatgggatcccacacaatctccagtgaaatgcacacctcctctctctga     1320
gaaggttcaaggtttcctgtctctgagcctcctctctgcagacatagaaatccagactaa     1380
ctcctctctcccgacttgtccgctcctgctctgcctcttccagGTCACTCCAGCCATGAG     1440
GACCTTCGCCCTCCTCACCGCCATGCTTCTCCTGGTGGCCCTGCACGCTCAGGCAGAGGC     1500
ACGTCAGGCAAGAGCTGATGAAGCTGCCGCCCAGCAGCAGCCTGGAACAGATGATCAGGG     1560
AATGGCTCATTCCTTTACATGGCCTGAAAACGCCGCTCTTCCACTTTCAGgtgagacagg     1620
ccggcatgcagagctgcagggtctagagggatggatgggagacagagtcgggaatcgagt     1680
ctcagtggtccttgtcacctagatggcttcatttagcatctctgggccttggttttctca     1740
tctataaattgaatacagaaccaaataaatctagcaggtttctgtctataaagacttgag     1800
gcagctctgcctggagagtaaccattcttttattcctttacttccttaacgatcctttca     1860
ctttagaaaatcaataaaattaaaaaataagacttgaaatcaacatatgtctgtgaaatt     1920
cagtaggtttaagatatgaagaaacagtctgctagttctttctggattcaaacaagtcat     1980
cttcattacatggataatatttgactgtatctatacaaccgtttctaagagtagagacaa     2040
gcctaagagtgcgttcaggtgtgtgtctgatggggcagaagcacaaaaatgaaagcaaat     2100
gagaataagtctcaaatcctgtatgaccagcactgctctgtgtatttattcttaatgact     2160
gaagttgttcatgctaccggccctaatgcagccgacatcactcattagctagcacatgac     2220
ttctccaggattccctttgccacccactgctgaccttctgatccatttacgatgctctct     2280
ctgtgttcccagAGTCAGCGAAAGGCTTGAGGTGCATTTGCACACGAGGATTCTGCCGTT     2340
TGTTATAATGTCACCTTGGGTCCTGCGCTTTTCGTGGTTGACTCCACCGGATCTGCTGCC     2400
GCTGAGCTTCCAGAATCAAGAAAAATATGCTCAGAAGTTACTTTGAGAGTTAAAAGAAAT     2460
TCTTGCTACTGCTGTACCTTCTCCTCAGTTTCCTTTTCTCATCCCAAATAAATACCTTCT     2520
CGC                                                               2523
```

FIG. 13A

RTD1.2

```
GACCGCTGCTCTTGCTACAGGAGACCCGGGACAGAGGACTGCTGTCTGCCCTCTCTCTTC      60
ACTCTGCCTAACTTGAGGATCTgtaagtaacacaaaacttaaactttcctgtcgaggttt     120
gaacattgaagctgtgcacccaatctgacctgtgactcctgggccaccccagagggacct     180
agtgggtgaatcccctgctgtgcatttctgtctgaacctctgggggctgctgggagcatt     240
ggctaccagctcaattaatagagaaactcaagaaatttccttctacttacacgtgtccta     300
cttgacacgtccaacagagacaacaatagctccttaaaacacccttttatttggagagaa     360
gccgatcctgctcctcggcctatttttcaatcaggttatttcttatttgctactgagttg     420
tttgattgccttatgcatttagatgttcacccttctaccacttagggtttgcaactatt     480
gtctttcattttctgagttgctttttcactcagttgattatttatttgttggtttggttt     540
tttgacgtgcatttgctttagaggtcagtgcagccccacttgtctcttttcccgtttatt     600
gcctgtgtctttggtgtcatagcaaagatatcattaccaacatcaatgtcaaagcattat     660
cttcatatgttcctctcgtcgtttacggtttcaggactatgtttgggtcttcaatccatt     720
ttgagttggtttgtgaaatagatatgataaagaccacatgtatcaaacatcaaatcctaa     780
ggtggagtacagtagatatataccatttttcattcttattcatatctctatagagctgga     840
aatgaatttttcagtgtagatgaaatttgaccttgatatcactgtgttcatttcaccta      900
tcgcatgatagggtcattgtcctcttcacattggcccctacaggaggctacacacctcat     960
gccttcatgagagtgatcatgcctatgatgcctgcaacaaatcactcttcacttgacagg     1020
aaattcatgcctgctgccagagtgtagacccatagagagtcgtggggccatctgaaggaa     1080
aggagacatttgtatcctgaacttactgaacaaagcactgctgttatcctttggtagaac     1140
agtaaaaagtaaatatgtaatgaagtgagaaacaggagaaagatgccaggttcctcatct     1200
tcaccatcctctccatcagcacagacactaaacatagagattcaaactagagtgaaagct     1260
gggagagcaaaagaagaaaacatggacattgagaccaatgggatcccatacaatctccag     1320
tgaaatgcacagctcctctctctgagaaggttcaagatttcctgtctctgagccttctct     1380
ctgcagacatagaaatccagactaactcctctctcccgacttgtctgctcctgctcttcc     1440
tcctccagGCCAGCCATGAGGACCTTCGCCCTCCTCACCGCCATGCTTCTCCTGGTGGCC     1500
CTGCACGCTCAGGCAGAGGCACGTCAGGCAAGAGCTGATGAAGCTGCCGCCCAGCAGCAG     1560
CCTGGAGCAGATGATCAGGGAATGGCTCATTCCTTTACACGGCCTGAAAACGCCGCTCTT     1620
CCGCTTTCAGgtgagacaggccggcatgcagagctacagggtctagagggatggatggga     1680
gacagagtcgggaatcgagtctcagtggtccatgtcacctagatggcttcatttagcatc     1740
tctgggccttggttttctcatctataaattgaatagagagccaaagaagtctaacaggtt     1800
ttctgtctataaagatttgaggcagctctgcctggagagtaaccattcttttattccctt     1860
acttccttaatgatcctttcactttagagaatcaataaaattaaaaaataaaacttgaaa     1920
tcaagatatgtctgtgaaattcaagtaggtttaagacatgaagagacagtctgactagtt     1980
ctttctggattcaaacaagtcatcttcattacacggagaatatttgactgtatctataca     2040
accgtttctaagagtagagacaagcctaagagtgcattcaggtgtttgtgtttgatgggg     2100
cacaggcacaaaaatgagagcaaatgagaataagtctcaaatcctgtgtgaccagcacta     2160
ctctgtgtatttattcctactgactgaggttgttcatgctaccggcccgaatgcagctga     2220
catccctcattagctagcacatgacttctccaggattccctttgtcactcactgcagacc     2280
ttctgatccatttatgatgctttctctgtgtccccagAGTCAGCGAGAGGCTTGAGGTGC     2340
CTTTGCAGACGAGGAGTTTGCCAACTGTTATAAAGGCGTTTGGGGTCCTGCGCTTTTCGT     2400
GGTTGACTCTGCCGGATCTGCTGCCGCTGAGCTTCCAGAATCAAGAAAAATACGCTCAGA     2460
AGTTACTTTGAGAGTTGAAAGAAATTCCTGTTACTCCTGTACCTTGTCCTCAATTTCCTT     2520
TTCTCATCCCAAATAAATACCTTCTCGC                                      2548
```

FIG. 13B

```
CCTGGAACAGATGATCAGGGAATGGCTCATTCCTTTACATGGCCTGAAAACGCCGCTCTT  60
GGACCTTGTCTACTAGTCCCTTACCGAGTAAGGAAATGTACCGGACTTTTGCGGCGAGAA

CCACTTTCAGAGTCAGCGAAAGGCTTGAGGTGCATTTGCACACGAGGATTCTGCCGTTTG  120
GGTGAAAGTCTCAGTCGCTTTCCGAACTCCACGTAAACGTGTGCTCCTAAGACGGCAAAC

TTATAATGTCAC                                                  132
AATATTACAGTG
```

FIG. 14A

```
CCTGGAGCAGATGATCAGGGAATGGCTCATTCCTTTACACGGCCTGAAAACGCCGCTCTT  60
GGACCTCGTCTACTAGTCCCTTACCGAGTAAGGAAATGTGCCGGACTTTTGCGGCGAGAA

CCGCTTTCAGAGTCAGCGAGAGGCTTGAGGTGCCTTTGCAGACGAGGAGTTTGCCAACTG  120
GGCGAAAGTCTCAGTCGCTCTCCGAACTCCACGGAAACGTCTGCTCCTCAAACGGTTGAC

TTATAAAGGCGT                                                  132
AATATTTCCGCA
```

FIG. 14B

```
CCAGCCATGAGGACCTTCGCCCTCCTCACCGCCATGCTTCTCCTGGTGGCCCTGCACGCT      60
     M  R  T  F  A  L  L  T  A  M  L  L  L  V  A  L  H  A
CAGGCAGAGGCACGTCAGGCAAGAGCTGATGAAGCTGCCGCCCAGCAGCAGCCTGGAGCA     120
Q  A  E  A  R  Q  A  R  A  D  E  A  A  A  Q  Q  Q  P  G  A
GATGATCAGGGAATGGCTCATTCCTTTACATGGCCTGAAAACGCCGCTCTTCCACTTTCA     180
D  D  Q  G  M  A  H  S  F  T  W  P  E  N  A  A  L  P  L  S
GAGTCAGCGAAAGGCTTGAGGTGCATTTGCACACGAGGATTCTGCCGTATGTTATAACGT     240
E  S  A  K  G  L  R  C  I  C  T  R  G  F  C  R  M  L  end
CGC                                                               243
```

FIG. 15

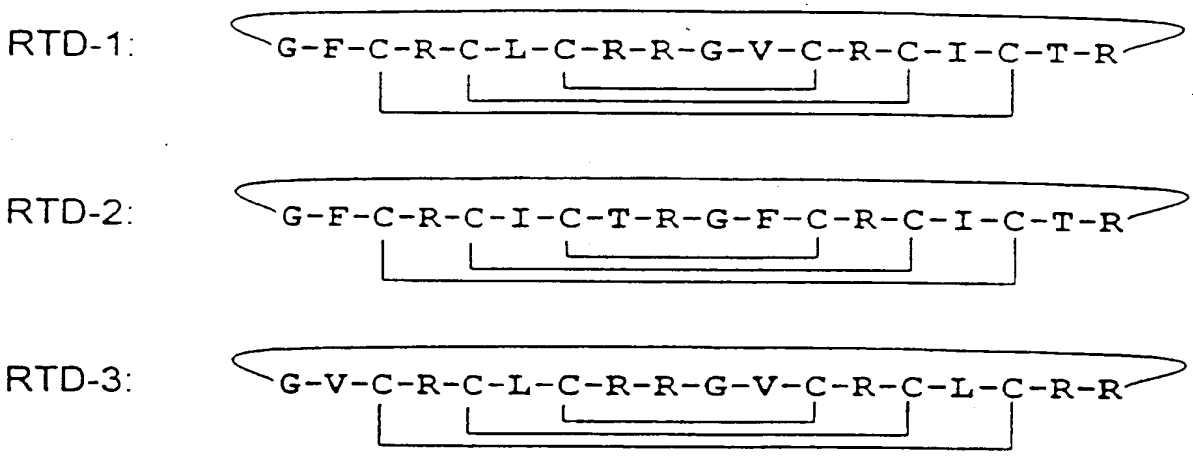

RTD-1:
G-F-C-R-C-L-C-R-R-G-V-C-R-C-I-C-T-R
RTD-2:
G-F-C-R-C-I-C-T-R-G-F-C-R-C-I-C-T-R
RTD-3:
G-V-C-R-C-L-C-R-R-G-V-C-R-C-L-C-R-R

FIG. 16